

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2031 Elliot

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River	Left	7.07	05/16/2019 05/16/2019	Alberto De Leon

LM Start		Rating **	A	Issue No.	5
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Flood Preparedness & Training			°	°
				°	°
DWR ID	DWR_RD2031_01_s _ 2013_5				
Comment Code					
Inspector Comment					
LMA has a flood response plan and recent flood fight training.					

No Photos

LM Start		Rating **	A	Issue No.	6
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Emergency Supplies & Equipment			°	°
				°	°
DWR ID	DWR_RD2031_01_s _ 2013_6				
Comment Code					
Inspector Comment					
Supplies available on-site.					

No Photos

LM Start		Rating **	A	Issue No.	12
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Operations & Maintenance Manuals			°	°
				°	°
DWR ID	DWR_RD2031_01_s _ 2013_12				
Comment Code					
Inspector Comment					
O&M Manual available at the office.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Unit No. 01 Stanislaus River	Left	7.07	05/16/2019 05/16/2019	Alberto De Leon

LM Start	0.02	Rating **	U	Issue No.	30
LM End	0.02	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.709993 °	37.709993 °
				-121.155771 °	-121.155771 °
DWR ID	DWR_RD2031_01_s_2019_30				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
Erosion caused by surface runoff starting on waterside shoulder extending down to the waterside slope to the toe. Approximate size of erosion-4ft wide, 1 ft deep, 8 ft long.					

Photo 1 of 1 : SP_2019_RD2031_307_30_20190520_00085.jpg



View of waterside erosion caused by surface runoff. Erosion measures approximately 4 ft wide (on slope), 1 ft. deep, 8 ft. long. (Spring 2019)

LM Start	0.02	Rating **	M	Issue No.	28
LM End	0.04	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			37.709994 °	37.709987 °
				-121.155772 °	-121.156196 °
DWR ID	DWR_RD2031_01_s_2019_28				
Comment Code					
C2 : Repair depressions or ruts in the crown or slope.					
Inspector Comment					

No Photos

LM Start	0.22	Rating **	M	Issue No.	31
LM End	0.42	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.707763 °	37.704997 °
				-121.157102 °	-121.158518 °
DWR ID	DWR_RD2031_01_s_2019_31				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

No Photos

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River	Left	7.07	05/16/2019 05/16/2019	Alberto De Leon

LM Start	0.25	Rating **	M	Issue No.	32
LM End	0.25	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			37.707376 °	37.707376 °
				-121.157382 °	-121.157382 °
DWR ID	DWR_RD2031_01_s_2019_32				
Comment Code					
C2 : Repair depressions or ruts in the crown or slope.					
Inspector Comment					

No Photos

LM Start	0.35	Rating **	A/W	Issue No.	973
LM End	0.35	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.705932 °	37.705932 °
				-121.157985 °	-121.157985 °
DWR ID	20437				
Comment Code					
Inspector Comment					
FS_ID:20024 DS_ID:20437 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 3.5 feet below the crown. Concrete U-shaped headwalls on both ends. Flap gate on the waterside (WS) end. Installed by USACE in 1966. [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 4, June 1968, (HLM 0.36)]. FS Date: 9/11/2013					

Photo 1 of 2 : UCIP_SP_2019_20024_33924.jpg



Concrete headwall on LS slope.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River	Left	7.07	05/16/2019 05/16/2019	Alberto De Leon

LM Start	0.35	Rating **	A/W	Issue No.	973 (cont)	
LM End	0.35	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.705932 °	37.705932 °	
				-121.157985 °	-121.157985 °	
DWR ID	20437					
Comment Code						
Inspector Comment						
FS_ID:20024						
DS_ID:20437						
EP_NO: N/A						
Repair Type: No Action Needed						
Crossing Status: Found						
UCIP Comments:						
FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe						
through the levee, 3.5 feet below the crown. Concrete U-shaped						
headwalls on both ends. Flap gate on the waterside (WS) end. Installed						
by USACE in 1966. [Additional Reference(s): DWR Levee Log, 2005.						
USACE San Joaquin O&M Manual 4, June 1968, (HLM 0.36)].						
FS Date: 9/11/2013						

Photo 2 of 2 : UCIP_SP_2019_20024_33923.jpg



Concrete headwall and flapgate on WS toe.

LM Start	0.56	Rating **	A/W	Issue No.	974
LM End	0.56	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.703323 °	37.703323 °
				-121.159771 °	-121.159771 °
DWR ID	20439				
Comment Code					
Inspector Comment					
FS_ID:20044 DS_ID:20439 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 15-inch corrugated metal drainage pipe through the levee, 9 feet below the crown. Slide gate in a 36-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. Drainage canal off the landside (LS) toe. This pipe replaced a 15-inch pipe at the same location. [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 4, June 1968, (HLM 0.57)]. FS Date: 9/11/2013					

Photo 1 of 3 : UCIP_SP_2019_20044_33942.jpg



36-inch CMP riser on WS shoulder.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

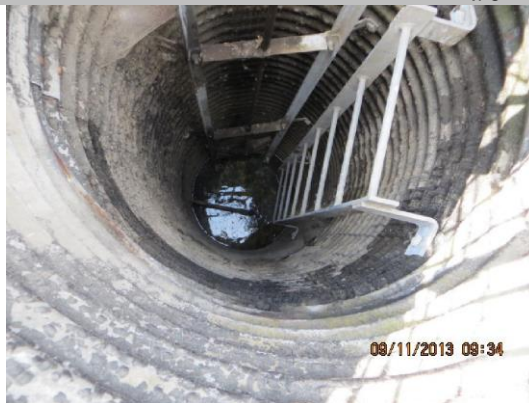
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River	Left	7.07	05/16/2019 05/16/2019	Alberto De Leon

LM Start	0.56	Rating **	A/W	Issue No.	974 (cont)	
LM End	0.56	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.703323 °	37.703323 °	
				-121.159771 °	-121.159771 °	
DWR ID	20439					
Comment Code						
Inspector Comment						
FS_ID:20044 DS_ID:20439 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 15-inch corrugated metal drainage pipe through the levee, 9 feet below the crown. Slide gate in a 36-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. Drainage canal off the landside (LS) toe. This pipe replaced a 15-inch pipe at the same location. [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 4, June 1968, (HLM 0.57)]. FS Date: 9/11/2013						

Photo 2 of 3 : UCIP_SP_2019_20044_33941.jpg



Slide gate in CMP riser on WS shoulder.

LM Start	0.56	Rating **	A/W	Issue No.	974 (cont)
LM End	0.56	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2019_20044_33940.jpg



Drainage ditch at inlet on LS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River	Left	7.07	05/16/2019 05/16/2019	Alberto De Leon

LM Start	0.77	Rating **	M	Issue No.	36
LM End	0.77	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.701177 °	37.701177 °
				-121.162055 °	-121.162055 °
DWR ID	DWR_RD2031_01_f_2012_36				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

Photo 1 of 1 : SP_2019_RD2031_307_36_20190313_00008.jpg



View of rodent burrows on landside slope.

LM Start	1.09	Rating **	M	Issue No.	34
LM End	1.09	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.698997 °	37.698997 °
				-121.166881 °	-121.166881 °
DWR ID	DWR_RD2031_01_s_2019_34				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

LM Start	1.15	Rating **	M	Issue No.	38
LM End	1.72	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.698845 °	37.697607 °
				-121.168052 °	-121.176707 °
DWR ID	DWR_RD2031_01_s_2019_38				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Vegetation on landside easement needs to be maintained.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River	Left	7.07	05/16/2019 05/16/2019	Alberto De Leon

LM Start	1.55	Rating **	A/W	Issue No.	980
LM End	1.55	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.698921 °	37.698921 °
				-121.174144 °	-121.174144 °
DWR ID	20446				
Comment Code					
Inspector Comment					
FS_ID:20088					
DS_ID:20446					
EP_NO: N/A					
Repair Type: No Action Needed					
Crossing Status: Found					
UCIP Comments:					
FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 3.5 feet below the crown. Concrete headwalls on both ends. Flap gate on the waterside (WS) end. Installed by USACE in 1966. [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 4, June 1968, (HLM 1.56)].					
FS Date: 9/11/2013					

Photo 1 of 3 : UCIP_SP_2019_20088_34030.jpg



Bowl shaped concrete inlet on LS slope.

LM Start	1.55	Rating **	A/W	Issue No.	980 (cont)
LM End	1.55	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP_SP_2019_20088_34029.jpg



Bowl shaped concrete inlet on LS slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River	Left	7.07	05/16/2019 05/16/2019	Alberto De Leon

LM Start	1.78	Rating **	M	Issue No.	981 (cont)	
LM End	1.78	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.696958 °	37.696958 °	
				-121.177464 °	-121.177464 °	
DWR ID	20470					
Comment Code						
Inspector Comment						
FS_ID:41354						
DS_ID:20470						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Silt buildup at inlet and outlet.						
FIELD_STRUCT_DESC: 1 of 2: 24-inch corrugated metal drainage pipe						
through the levee, 9.5 feet below the crown. Concrete U-shaped						
headwalls on both ends. Flap gate on the waterside (WS) end. Installed						
by USACE in 1966. [Additional Reference(s): DWR Levee Log, 2005.						
USACE San Joaquin O&M Manual 4, June 1968, (HLM 1.80)].						
FS Date: 9/11/2013						

Photo 2 of 3 : UCIP_SP_2019_41354_34033.jpg



Concrete headwall on LS toe.

LM Start	1.78	Rating **	M	Issue No.	981 (cont)
LM End	1.78	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2019_41354_34032.jpg



Concrete headwall at LS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Reclamation District No. 2031 Elliot

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River	Left	7.07	05/16/2019 05/16/2019	Alberto De Leon

LM Start	1.78	Rating **	M	Issue No.	982
LM End	1.78	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.696943 °	37.696943 °
				-121.177470 °	-121.177470 °
DWR ID	20447				
Comment Code					
Inspector Comment					
FS_ID:20092					
DS_ID:20447					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Silt buildup at inlet and outlet.					
FIELD_STRUCT_DESC: 2 of 2: 24-inch corrugated metal drainage pipe through the levee, 9.5 feet below the crown. Concrete U-shaped headwalls on both ends. Flap gate on the waterside (WS) end. Installed by USACE in 1966. [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 4, June 1968, (HLM 1.80)].					
FS Date: 9/11/2013					

Photo 1 of 3 : UCIP_SP_2019_20092_34041.jpg



Concrete U-shaped headwall on WS toe.

LM Start	1.78	Rating **	M	Issue No.	982 (cont)
LM End	1.78	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP_SP_2019_20092_34040.jpg



Concrete U-shaped headwall on LS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River	Left	7.07	05/16/2019 05/16/2019	Alberto De Leon

LM Start	1.78	Rating **	M	Issue No.	982 (cont)	
LM End	1.78	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.696943 °	37.696943 °	
				-121.177470 °	-121.177470 °	
DWR ID	20447					
Comment Code						
Inspector Comment						
FS_ID:20092						
DS_ID:20447						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Silt buildup at inlet and outlet.						
FIELD_STRUCT_DESC: 2 of 2: 24-inch corrugated metal drainage pipe through the levee, 9.5 feet below the crown. Concrete U-shaped headwalls on both ends. Flap gate on the waterside (WS) end. Installed by USACE in 1966. [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 4, June 1968, (HLM 1.80)].						
FS Date: 9/11/2013						

Photo 3 of 3 : UCIP_SP_2019_20092_34039.jpg



Concrete U-shaped headwall on LS toe.

LM Start	1.85	Rating **	M	Issue No.	41
LM End	1.85	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.695893 °	37.695893 °
				-121.177547 °	-121.177547 °
DWR ID	DWR_RD2031_01_s_2019_41				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River	Left	7.07	05/16/2019 05/16/2019	Alberto De Leon

LM Start	1.86	Rating **	M	Issue No.	49
LM End	1.86	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.695736 °	37.695736 °
				-121.177530 °	-121.177530 °
DWR ID	DWR_RD2031_01_s_2018_49				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					
Several squirrel holes and active rodent activity still exist in this location, Fall 2018.					

Photo 1 of 1 : SP_2019_RD2031_307_49_20190313_00013.jpg



View of the waterside where several squirrel holes are and active rodent activity.

LM Start	2.32	Rating **	M	Issue No.	43
LM End	2.32	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			37.689361 °	37.689361 °
				-121.178826 °	-121.178826 °
DWR ID	DWR_RD2031_01_s_2019_43				
Comment Code					
C2 : Repair depressions or ruts in the crown or slope.					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Unit No. 01 Stanislaus River	Left	7.07	05/16/2019 05/16/2019	Alberto De Leon

LM Start	2.39	Rating **	A/W	Issue No.	984
LM End	2.39	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.688676 °	37.688676 °
				-121.179622 °	-121.179622 °
DWR ID	20449				
Comment Code					
Inspector Comment					
FS_ID:20110 DS_ID:20449 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 3 feet below the crown. Concrete U-shaped headwall on the waterside (WS) end. Flap gate on the WS end. 5-foot by 5-foot concrete riser with pump on the LS toe. Likely that concrete riser is inlet for drainage pipe. [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 4, June 1968, (HLM 2.41)]. FS Date: 9/11/2013					

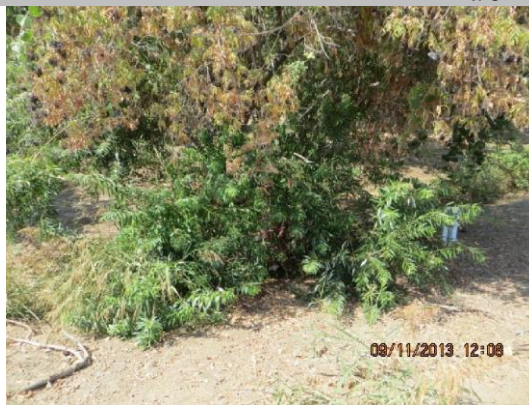
Photo 1 of 3 : UCIP_SP_2019_20110_34078.jpg



Flapgate and concrete headwall on WS toe.

LM Start	2.39	Rating **	A/W	Issue No.	984 (cont)
LM End	2.39	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP_SP_2019_20110_34077.jpg



Vegetation covers outlet of pipe on WS slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River	Left	7.07	05/16/2019 05/16/2019	Alberto De Leon

LM Start	2.39	Rating **	A/W	Issue No.	984 (cont)	
LM End	2.39	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.688676 °	37.688676 °	
				-121.179622 °	-121.179622 °	
DWR ID	20449					
Comment Code						
Inspector Comment						
FS_ID:20110 DS_ID:20449 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 3 feet below the crown. Concrete U-shaped headwall on the waterside (WS) end. Flap gate on the WS end. 5-foot by 5-foot concrete riser with pump on the LS toe. Likely that concrete riser is inlet for drainage pipe. [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 4, June 1968, (HLM 2.41)]. FS Date: 9/11/2013						

Photo 3 of 3 : UCIP_SP_2019_20110_34076.jpg



5'X5' concrete riser with pump on LS toe.

LM Start	2.60	Rating **	M	Issue No.	44
LM End	2.60	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.687227 °	37.687227 °
				-121.182742 °	-121.182742 °
DWR ID	DWR_RD2031_01_s_2019_44				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2031 Elliot

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River	Left	7.07	05/16/2019 05/16/2019	Alberto De Leon

LM Start	2.84	Rating **	M	Issue No.	45
LM End	3.25	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.686781 °	37.690424 °
				-121.186975 °	-121.192393 °
DWR ID	DWR_RD2031_01_s_2019_45				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

No Photos

LM Start	3.08	Rating **	M	Issue No.	986
LM End	3.08	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.688297 °	37.688297 °
				-121.190865 °	-121.190865 °
DWR ID	20451				
Comment Code					
Inspector Comment					
FS_ID:20449 DS_ID:20451 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe appears to be abandoned and if so should be done so properly. FIELD_STRUCT_DESC: *ABANDONED* 24-inch corrugated metal drainage pipe through the levee, 14 feet below the crown. Slide gate in a 36-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 4, June 1968, (HLM 3.11)]. FS Date: 9/11/2013					

Photo 1 of 3 : UCIP_SP_2019_20449_34506.jpg



Slide gate in CMP riser on WS slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2031 Elliot

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River	Left	7.07	05/16/2019 05/16/2019	Alberto De Leon

LM Start	3.08	Rating **	M	Issue No.	986 (cont)	
LM End	3.08	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.688297 °	37.688297 °	
				-121.190865 °	-121.190865 °	
DWR ID	20451					
Comment Code						
Inspector Comment						
FS_ID:20449 DS_ID:20451 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe appears to be abandoned and if so should be done so properly. FIELD_STRUCT_DESC: *ABANDONED* 24-inch corrugated metal drainage pipe through the levee, 14 feet below the crown. Slide gate in a 36-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 4, June 1968, (HLM 3.11)]. FS Date: 9/11/2013						

Photo 2 of 3 : UCIP_SP_2019_20449_34505.jpg



Pipe not visible on LS toe.

LM Start	3.08	Rating **	M	Issue No.	986 (cont)
LM End	3.08	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2019_20449_34504.jpg



Slide gate in CMP riser on WS slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2031 Elliot

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River	Left	7.07	05/16/2019 05/16/2019	Alberto De Leon

LM Start	3.31	Rating **	M	Issue No.	51
LM End	3.51	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		37.691277 °	37.690844 °	
			-121.192582 °	-121.196025 °	
DWR ID	DWR_RD2031_01_s _ 2019_51				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

No Photos

LM Start	3.61	Rating **	M	Issue No.	52
LM End	3.61	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Trim / Thin Trees		37.690242 °	37.690242 °	
			-121.197487 °	-121.197487 °	
DWR ID	DWR_RD2031_01_s _ 2019_52				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2031 Elliot

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River	Left	7.07	05/16/2019 05/16/2019	Alberto De Leon

LM Start	3.66	Rating **	M	Issue No.	987	
LM End	3.66	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.689900 °	37.689900 °	
				-121.198319 °	-121.198319 °	
DWR ID	20478					
Comment Code						
Inspector Comment						
FS_ID:23064						
DS_ID:20478						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Good candidate for video inspection.						
FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 5.5 feet below the crown. Flap gate visible at the waterside (WS) toe. [Additional Reference(s): USACE San Joaquin O&M Manual 4, June 1968, (HLM 3.7), listed as a 20-inch pipe, 3.9 feet below the crown].						
FS Date: 9/12/2013						

Photo 1 of 2 : UCIP_SP_2019_23064_39200.jpg



CMP pipe and flapgate visible at WS toe.

LM Start	3.66	Rating **	M	Issue No.	987 (cont)
LM End	3.66	Issue Type +	Ma	Location *	

Photo 2 of 2 : UCIP_SP_2019_23064_39199.jpg



CMP pipe and flapgate visible at WS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2031 Elliot

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River	Left	7.07	05/16/2019 05/16/2019	Alberto De Leon

LM Start	4.41	Rating **	A/W	Issue No.	992
LM End	4.41	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.686290 °	37.686290 °
				-121.208000 °	-121.208000 °
DWR ID	20458				
Comment Code					
Inspector Comment					
FS_ID:20683 DS_ID:20458 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: *ABANDONED* 1 of 2: 14-inch concrete encased steel drainage pipe through the levee, 7.5 feet below the crown. Plate welded on the waterside (WS) end. 6-foot by 12-foot concrete distribution box on the landside (LS) toe. [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 4, June 1968, (HLM 4.46)]. FS Date: 9/12/2013					

Photo 1 of 3 : UCIP_SP_2019_20683_34782.jpg



Pipe visible inside pumphouse on WS slope.

LM Start	4.41	Rating **	A/W	Issue No.	992 (cont)
LM End	4.41	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP_SP_2019_20683_34781.jpg



Welded steel plate over WS end of pipe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2031 Elliot

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River	Left	7.07	05/16/2019 05/16/2019	Alberto De Leon

LM Start	4.41	Rating **	A/W	Issue No.	992 (cont)	
LM End	4.41	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			37.686290 °		37.686290 °
				-121.208000 °		-121.208000 °
DWR ID	20458					
Comment Code						
Inspector Comment						
FS_ID:20683 DS_ID:20458 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: *ABANDONED* 1 of 2: 14-inch concrete encased steel drainage pipe through the levee, 7.5 feet below the crown. Plate welded on the waterside (WS) end. 6-foot by 12-foot concrete distribution box on the landside (LS) toe. [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 4, June 1968, (HLM 4.46)]. FS Date: 9/12/2013						

Photo 3 of 3 : UCIP_SP_2019_20683_34780.jpg



Concrete distribution box on LS toe.

LM Start	4.53	Rating **	M	Issue No.	54
LM End	4.61	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.684754 °	37.683609 °
				-121.208395 °	-121.208247 °
DWR ID	DWR_RD2031_01_s_2019_54				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2031 Elliot

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	5.98	05/16/2019 05/16/2019	Alberto De Leon

LM Start	0.22	Rating **	A/W	Issue No.	967	
LM End	0.22	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.658888 °	37.658888 °	
				-121.234274 °	-121.234274 °	
DWR ID	20482					
Comment Code						
Inspector Comment						
FS_ID:20703						
DS_ID:20482						
EP_NO: N/A						
Repair Type: No Action Needed						
Crossing Status: Found						
UCIP Comments:						
FIELD_STRUCT_DESC: 1 of 2: 24-inch steel drainage pipe through the levee, 3.6 feet below the crown. Concrete U-shaped headwall on the waterside (WS) end. Flap gate on the WS end. Pump on pile structure on the landside (LS). [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 4, June 1968, (HLM 0.24)].						
FS Date: 9/12/2013						

Photo 1 of 3 : UCIP_SP_2019_20703_34822.jpg



Pump on platform at LS toe.

LM Start	0.22	Rating **	A/W	Issue No.	967 (cont)
LM End	0.22	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP_SP_2019_20703_34821.jpg



Pond at outlet on WS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2031 Elliot

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	5.98	05/16/2019 05/16/2019	Alberto De Leon

LM Start	0.22	Rating **	A/W	Issue No.	967 (cont)	
LM End	0.22	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.658888 °	37.658888 °	
				-121.234274 °	-121.234274 °	
DWR ID	20482					
Comment Code						
Inspector Comment						
FS_ID:20703						
DS_ID:20482						
EP_NO: N/A						
Repair Type: No Action Needed						
Crossing Status: Found						
UCIP Comments:						
FIELD_STRUCT_DESC: 1 of 2: 24-inch steel drainage pipe through the levee, 3.6 feet below the crown. Concrete U-shaped headwall on the waterside (WS) end. Flap gate on the WS end. Pump on pile structure on the landside (LS). [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 4, June 1968, (HLM 0.24)].						
FS Date: 9/12/2013						

Photo 3 of 3 : UCIP_SP_2019_20703_34820.jpg



Concrete U-shaped headwall with flapgate on WS toe.

LM Start	0.22	Rating **	A/W	Issue No.	968
LM End	0.22	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.658875 °	37.658875 °
				-121.234280 °	-121.234280 °
DWR ID	20508				
Comment Code					
Inspector Comment					
FS_ID:20704 DS_ID:20508 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 2 of 2: 24-inch steel drainage pipe through the levee, 3.6 feet below the crown. Concrete U-shaped headwall on the waterside (WS) end, and a concrete headwall at the landside (LS) toe. Flap gate on the WS end. Pump on pile structure on the LS. [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 4, June 1968, (HLM 0.24)]. FS Date: 9/12/2013					

Photo 1 of 3 : UCIP_SP_2019_20704_34826.jpg



Pump on pier on LS toe with shed at pump walkway.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2031 Elliot

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	5.98	05/16/2019 05/16/2019	Alberto De Leon

LM Start	0.22	Rating **	A/W	Issue No.	968 (cont)	
LM End	0.22	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.658875 °	37.658875 °	
				-121.234280 °	-121.234280 °	
DWR ID	20508					
Comment Code						
Inspector Comment						
FS_ID:20704 DS_ID:20508 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 2 of 2: 24-inch steel drainage pipe through the levee, 3.6 feet below the crown. Concrete U-shaped headwall on the waterside (WS) end, and a concrete headwall at the landside (LS) toe. Flap gate on the WS end. Pump on pile structure on the LS. [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 4, June 1968, (HLM 0.24)]. FS Date: 9/12/2013						

Photo 2 of 3 : UCIP_SP_2019_20704_34825.jpg



Pond at outlet on WS toe.

LM Start	0.22	Rating **	A/W	Issue No.	968 (cont)
LM End	0.22	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2019_20704_34824.jpg



Flap gate at Concrete outlet on WS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2031 Elliot

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	5.98	05/16/2019 05/16/2019	Alberto De Leon

LM Start	0.24	Rating **	M	Issue No.	969	
LM End	0.24	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			37.658595 °		37.658595 °
				-121.234410 °		-121.234410 °
DWR ID	20484					
Comment Code						
Inspector Comment						
FS_ID:53836 DS_ID:20484 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 05/17/2018 LMA installed lid on top of riser (D. Sanoski - DWR UCIP). FIELD_STRUCT_DESC: 48-inch corrugated metal drainage pipe through the levee, 22.8 feet below the crown. Slide gate in a 5-foot-diameter corrugated metal pipe (CMP) riser on the waterside (WS) slope. Concrete U-shaped headwalls on both ends. Flap gate on the WS end. [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 4, June 1968, (HLM 0.26)]. FS Date: 5/17/2018						

LM Start	0.24	Rating **	M	Issue No.	969 (cont)
LM End	0.24	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP_SP_2019_53836_77560.jpg



5/17/2018- Newly installed lid.

Photo 2 of 3 : UCIP_SP_2019_53836_34834.jpg



Slide gate in CMP riser on WS slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

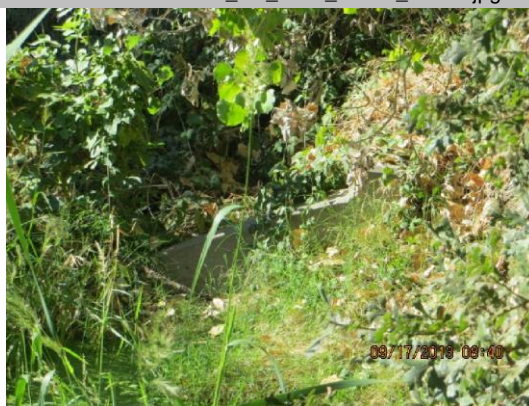
Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2031 Elliot

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	5.98	05/16/2019 05/16/2019	Alberto De Leon

LM Start	0.24	Rating **	M	Issue No.	969 (cont)	
LM End	0.24	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			37.658595 °		37.658595 °
				-121.234410 °		-121.234410 °
DWR ID	20484					
Comment Code						
Inspector Comment						
FS_ID:53836 DS_ID:20484 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 05/17/2018 LMA installed lid on top of riser (D. Sanoski - DWR UCIP). FIELD_STRUCT_DESC: 48-inch corrugated metal drainage pipe through the levee, 22.8 feet below the crown. Slide gate in a 5-foot-diameter corrugated metal pipe (CMP) riser on the waterside (WS) slope. Concrete U-shaped headwalls on both ends. Flap gate on the WS end. [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 4, June 1968, (HLM 0.26)]. FS Date: 5/17/2018						

Photo 3 of 3 : UCIP_SP_2019_53836_34833.jpg



Concrete headwall on LS toe at edge of pond.

LM Start	2.14	Rating **	M	Issue No.	30
LM End	2.34	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.640632 °	37.640217 °
				-121.221539 °	-121.217870 °
DWR ID	DWR_RD2031_02_s_2017_30				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
The landside slope is unmaintained but the excessive vegetation that was obstructing visibility and access has been knocked down. The vegetation still needs to be removed.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2031 Elliot

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	5.98	05/16/2019 05/16/2019	Alberto De Leon

LM Start	2.14	Rating **	M	Issue No.	31
LM End	2.34	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.640632 °	37.640217 °
				-121.221539 °	-121.217870 °
DWR ID	DWR_RD2031_02_s _ 2017_31				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
The vegetation on the slope is being removed for visibility and access but not completed.					

No Photos

LM Start	2.35	Rating **	M	Issue No.	966
LM End	3.57	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.640228 °	37.638301 °
				-121.217766 °	-121.196465 °
DWR ID	DWR_RD2031_02_s _ 2012_966				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					
Obstructive trees and vegetation along highway are on the landside slope of the levee.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2031 Elliot

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	5.98	05/16/2019 05/16/2019	Alberto De Leon

LM Start	3.76	Rating **	A/W	Issue No.	972
LM End	3.76	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.638063 °	37.638063 °
				-121.192917 °	-121.192917 °
DWR ID	20507				
Comment Code					
Inspector Comment					
FS_ID:20723					
DS_ID:20507					
EP_NO: N/A					
Repair Type: No Action Needed					
Crossing Status: Found					
UCIP Comments:					
FIELD_STRUCT_DESC: 5-foot by 5-foot reinforced concrete box drainage culvert semi-through the levee, 11 feet below the crown. 30-inch pipe runs through the culvert. Drop inlet next to concrete headwall on the landside (LS) toe. [Additional Reference(s): USACE San Joaquin O&M Manual 4, June 1968, (HLM 3.80)].					
FS Date: 9/17/2013					

Photo 1 of 3 : UCIP_SP_2019_20723_34882.jpg



Flap gate on CMP pipe at WS toe.

LM Start	3.76	Rating **	A/W	Issue No.	972 (cont)
LM End	3.76	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP_SP_2019_20723_34881.jpg



Concrete headwall on LS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2031 Elliot

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	5.98	05/16/2019 05/16/2019	Alberto De Leon

LM Start	3.76	Rating **	A/W	Issue No.	972 (cont)	
LM End	3.76	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.638063 °	37.638063 °	
				-121.192917 °	-121.192917 °	
DWR ID	20507					
Comment Code						
Inspector Comment						
FS_ID:20723						
DS_ID:20507						
EP_NO: N/A						
Repair Type: No Action Needed						
Crossing Status: Found						
UCIP Comments:						
FIELD_STRUCT_DESC: 5-foot by 5-foot reinforced concrete box drainage culvert semi-through the levee, 11 feet below the crown. 30-inch pipe runs through the culvert. Drop inlet next to concrete headwall on the landside (LS) toe. [Additional Reference(s): USACE San Joaquin O&M Manual 4, June 1968, (HLM 3.80)].						
FS Date: 9/17/2013						

Photo 3 of 3 : UCIP_SP_2019_20723_34880.jpg



Drop inlet on LS toe.

LM Start	3.79	Rating **	A/W	Issue No.	973
LM End	3.79	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.637998 °	37.637998 °
				-121.192535 °	-121.192535 °
DWR ID	20495				
Comment Code					
Inspector Comment					
FS_ID:20725 DS_ID:20495 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 9 feet below the crown. Concrete U-shaped headwall and flap gate on the waterside (WS) end. [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 4, June 1968, (HLM 3.82)]. FS Date: 9/17/2013					

No Photos

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2031 Elliot

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	5.98	05/16/2019 05/16/2019	Alberto De Leon

LM Start	3.84	Rating **	A/W	Issue No.	974
LM End	3.84	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.637924 °	37.637924 °
				-121.191600 °	-121.191600 °
DWR ID	20496				
Comment Code					
Inspector Comment					
FS_ID:51374					
DS_ID:20496					
EP_NO: N/A					
Repair Type: No Action Needed					
Crossing Status: Found					
UCIP Comments: 11/16/2016 Crossing has been downgraded from					
Urgent to No Action Needed debris has been cleared from both WS and					
LS. (O. Magana - DWR UCIP)09/17/2013 Minor debris blocking					
closure of flapgate on WS toe. (W. Wylie - DWR UCIP)					
FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe					
through the levee, 11 feet below the crown. Concrete U-shaped					
headwalls on each end. Flap gate on the waterside (WS) end.					
[Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin					
O&M Manual 4, June 1968, (HLM 3.88), Drawing No. 07-04-1666,					
Sheets 1666/23 and 1666/53, (Station 2+38S.T)].					
FS Date: 11/16/2016					

Photo 1 of 3 : UCIP_SP_2019_51374_34886.jpg



Concrete headwall on LS toe.

LM Start	3.84	Rating **	A/W	Issue No.	974 (cont)
LM End	3.84	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP_SP_2019_51374_34885.jpg



Concrete headwall on WS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2031 Elliot

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	5.98	05/16/2019 05/16/2019	Alberto De Leon

LM Start	3.84	Rating **	A/W	Issue No.	974 (cont)	
LM End	3.84	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			37.637924 °		37.637924 °
				-121.191600 °		-121.191600 °
DWR ID	20496					
Comment Code						
Inspector Comment						
FS_ID:51374 DS_ID:20496 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: 11/16/2016 Crossing has been downgraded from Urgent to No Action Needed debris has been cleared from both WS and LS. (O. Magana - DWR UCIP)09/17/2013 Minor debris blocking closure of flapgate on WS toe. (W. Wylie - DWR UCIP) FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 11 feet below the crown. Concrete U-shaped headwalls on each end. Flap gate on the waterside (WS) end. [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 4, June 1968, (HLM 3.88), Drawing No. 07-04-1666, Sheets 1666/23 and 1666/53, (Station 2+38S.T)]. FS Date: 11/16/2016						

Photo 3 of 3 : UCIP_SP_2019_51374_34884.jpg



Flapgate on WS toe.

LM Start	4.16	Rating **	A/W	Issue No.	975
LM End	4.16	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.633376 °	37.633376 °
				-121.190765 °	-121.190765 °
DWR ID	20497				
Comment Code					
Inspector Comment					
FS_ID:20728					
DS_ID:20497					
EP_NO: N/A					
Repair Type: No Action Needed					
Crossing Status: Found					
UCIP Comments:					
FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 9.6 feet below the crown. Concrete U-shaped headwalls on each end. Flap gate on the waterside (WS) end. Flashboards in slots on the landside (LS) headwall. [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 4, June 1968, (HLM 4.20)].					
FS Date: 9/17/2013					

Photo 1 of 3 : UCIP_SP_2019_20728_34895.jpg



Concrete headwall at ditch on LS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2031 Elliot

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	5.98	05/16/2019 05/16/2019	Alberto De Leon

LM Start	4.16	Rating **	A/W	Issue No.	975 (cont)	
LM End	4.16	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.633376 °	37.633376 °	
				-121.190765 °	-121.190765 °	
DWR ID	20497					
Comment Code						
Inspector Comment						
FS_ID:20728 DS_ID:20497 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 9.6 feet below the crown. Concrete U-shaped headwalls on each end. Flap gate on the waterside (WS) end. Flashboards in slots on the landside (LS) headwall. [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 4, June 1968, (HLM 4.20)]. FS Date: 9/17/2013						

Photo 2 of 3 : UCIP_SP_2019_20728_34894.jpg



Concrete headwall on LS toe.

LM Start	4.16	Rating **	A/W	Issue No.	975 (cont)
LM End	4.16	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_SP_2019_20728_34893.jpg



Headwall on WS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2031 Elliot

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	5.98	05/16/2019 05/16/2019	Alberto De Leon

LM Start	4.29	Rating **	A/W	Issue No.	1
LM End	5.97	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.631716°	37.630765°
				-121.189370°	-121.159189°
DWR ID	RD2031U02RM78.7				
Comment Code					
Inspector Comment					
10/04/2017: The erosion in the berm again was found further progressed toward levee toe. 07/08/2016: The erosion in the berm was found further progressed toward levee toe. 08/19/2015: No significant change observed. 07/17/2014: The erosion has slightly expanded toward levee toe at two pocket locations. 09/10/2013: The site has been visited. The erosion has expanded toward levee crest at two pocket locations. 07/18/2012: No significant change observed on the site. 08/18/2011: No significant change observed on the site. Dead trees and animal activities are visible. The closest point of the erosion site to the levee toe is about 100 ft. 10/19/2010: There is active scouring occurring on the bank due to the nature of the flow and the lack of armor protection. There is also a fallen log immediately downstream of where the erosion has occurred and is protruding outward, possibly creating an eddy and scouring the bank. With the remaining 100-foot wide berm, the levee prism is not yet affected. However, the bank will continue to degrade, and eventually intrude into the levee prism if no protection is put in place. Erosion site is recommended for annual assessment and monitoring during flood events. [2017 Site ID:RD2031U02RM78.7]					

LM Start	4.29	Rating **	A/W	Issue No.	1 (cont)
LM End	5.97	Issue Type +	Ma	Location *	WS

Photo 1 of 4 : SP_2019_RD2031_308_1_20190313_00001.jpg



Looking upstream of the erosion site.

Photo 2 of 4 : SP_2019_RD2031_308_1_20190313_00002.jpg



Looking downstream of the erosion site.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2031 Elliot

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	5.98	05/16/2019 05/16/2019	Alberto De Leon

LM Start	4.29	Rating **	A/W	Issue No.	1 (cont)	
LM End	5.97	Issue Type +	Ma	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR Erosion Survey			37.631716 °		37.630765 °
				-121.189370 °		-121.159189 °
DWR ID	RD2031U02RM78.7					
Comment Code						
Inspector Comment						
10/04/2017: The erosion in the berm again was found further progressed toward levee toe. 07/08/2016: The erosion in the berm was found further progressed toward levee toe. 08/19/2015: No significant change observed. 07/17/2014: The erosion has slightly expanded toward levee toe at two pocket locations. 09/10/2013: The site has been visited. The erosion has expanded toward levee crest at two pocket locations. 07/18/2012: No significant change observed on the site. 08/18/2011: No significant change observed on the site. Dead trees and animal activities are visible. The closest point of the erosion site to the levee toe is about 100 ft. 10/19/2010: There is active scouring occurring on the bank due to the nature of the flow and the lack of armor protection. There is also a fallen log immediately downstream of where the erosion has occurred and is protruding outward, possibly creating an eddy and scouring the bank. With the remaining 100-foot wide berm, the levee prism is not yet affected. However, the bank will continue to degrade, and eventually intrude into the levee prism if no protection is put in place. Erosion site is recommended for annual assessment and monitoring during flood events. [2017 Site ID:RD2031U02RM78.7]						

LM Start	4.29	Rating **	A/W	Issue No.	1 (cont)
LM End	5.97	Issue Type +	Ma	Location *	WS

Photo 3 of 4 : SP_2019_RD2031_308_1_20190313_00003.jpg



Close view of the pocket erosion.

Photo 4 of 4 : SP_2019_RD2031_308_1_20190313_00004.jpg



Close view of the erosion.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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